WHAT IS CLAIMED IS:

1. A luminescent device:

comprising an organic luminescent element comprising:

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an anode;

a cathode; and

a hole transporting layer provided between the anode and the cathode, comprising a first compound and a second compound;

wherein the first compound is smaller in ionization potential than the second 10 compound, and

wherein the second compound is larger in hole mobility than the first compound.

- A luminescent device according to claim 1, wherein there is a concentration gradient that a concentration of the first compound is decreased toward the cathode from the anode and a concentration of the second compound is increased toward the cathode from the anode.
 - 3. A luminescent device according to claim 1, wherein the first compound comprises a phthalocyanine compound.

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- 4. A luminescent device according to claim 1, wherein the second compound comprises an aromatic amine-based compound.
- 5. A luminescent device according to claim 1, wherein the organic luminescent element has a luminescence from a triplet excited state.
- 6. A luminescent device according to claim 1, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
 - 7. A luminescent device:

comprising an organic luminescent element comprising:

an anode;

a cathode; and

an electron transporting layer provided between the anode and the cathode, comprising a first compound and a second compound;

wherein the first compound is lager in electron affinity than the second 5 compound, and

wherein the second compound is larger in electron mobility than the first compound.

- 8. A luminescent device according to claim 7, wherein there is a concentration 10 gradient that a concentration of the first compound is increased toward the cathode from the anode and a concentration of the second compound is decreased toward the cathode from the anode.
- 9. A luminescent device according to claim 7, wherein the first compound is selected from the group consisting of alkali metal halogenide, a metal complex having a quinoline skeleton, a metal complex having a benzoquinoline skeleton, an oxadiazole derivative, or a triazole derivative.
- 10. A luminescent device according to claim 7, wherein the second compound is selected from the group consisting of a metal complex having a quinoline skeleton, a metal complex having a benzoquinoline skeleton, an oxadiazole derivative, a triazole derivative, or a phenanthroline derivative.
- 11. A luminescent device according to claim 7, wherein the organic luminescent 25 element has a luminescence from a triplet excited state.
- 12. A luminescent device according to claim 7, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
 - 13. A luminescent device: comprising an organic luminescent element comprising: an anode;

a cathode; and

a luminescent layer provided between the anode and the cathode, comprising a first compound and a second compound;

wherein the first compound is larger in hole mobility than the second compound, 5 and

wherein the second compound is larger in electron mobility than the first compound.

- 14. A luminescent device according to claim 13, wherein there is a concentration gradient that a concentration of the first compound is decreased toward the cathode from the anode and a concentration of the second compound is increased toward the cathode from the anode.
- 15. A luminescent device according to claim 13, wherein the first compound 15 comprises an aromatic amine-based compound.
- 16. A luminescent device according to claim 13, wherein the second compound is selected from the group consisting of a metal complex having a quinoline skeleton, a metal complex having a benzoquinoline skeleton, an oxadiazole derivative, a triazole derivative, or a phenanthroline derivative.
 - 17. A luminescent device according to claim 13, wherein the organic luminescent element has a luminescence from a triplet excited state.
- 18. A luminescent device according to claim 13, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
- 30 19. A luminescent device comprising:an organic luminescent element comprising:

an anode;

- a cathode; and
- a luminescent layer provided between the anode and the cathode,

comprising a first compound, a second compound, and a third compound;

wherein the first compound is larger in hole mobility than the second compound, wherein the second compound is larger in electron mobility than the first compound, and

- wherein an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the third compound is smaller than energy differences between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the first compound and the second compound.
- 20. A luminescent device according to claim 19, wherein there is a concentration gradient that a concentration of the first compound is decreased toward the cathode from the anode and a concentration of the second compound is increased toward the cathode from the anode.
- 15 21. A luminescent device according to claim 19, wherein the first compound comprises an aromatic amine-based compound.
- 22 A luminescent device according to claim 19, wherein the second compound is selected from the group consisting of a metal complex having a quinoline skeleton, a 20 metal complex having a benzoquinoline skeleton, an oxadiazole derivative, a triazole derivative, or a phenanthroline derivative.
 - 23. A luminescent device according to claim 19, wherein the organic luminescent element has a luminescence from a triplet excited state.

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24. A luminescent device according to claim 19, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.

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25. A luminescent device comprising:an organic luminescent element comprising:

an anode;

a cathode;

- a luminescent layer provided between the anode and the cathode; and
- a blocking layer adjacent to the luminescent layer, being provided between the anode and the cathode;

wherein the blocking layer comprises a blocking material and a material 5 contained in the luminescent layer, and

wherein an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the blocking material is larger than an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in a material contained in the luminescent layer.

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26. A luminescent device according to claim 25, wherein there is a concentration gradient that a concentration of the material contained in the luminescent layer is decreased toward the cathode from the anode and a concentration of the blocking material is increased toward the cathode from the anode.

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- 27. A luminescent device according to claim 25, wherein the blocking material is selected from the group consisting of an oxadiazole derivative, a triazole derivative, or a phenanthroline derivative.
- 28. A luminescent device according to claim 25 wherein the organic luminescent element presents luminance caused from a triplet excited state.
- 29. A luminescent device according to claim 25, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video
 25 camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
 - 30. A luminescent device comprising: an organic luminescent element comprising:

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an anode;

a cathode; and

an organic compound layer provided between the anode and the cathode, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein the hole transporting region being disposed nearer to the anode than the electron transporting region, and

wherein a mixed region comprising the hole transporting material and the electron transporting material is provided between the hole transporting region and the 5 electron transporting region.

- 31. A luminescent device according to claims 30, wherein there is a concentration gradient in the mixed region that a concentration of the hole transporting material is decreased toward the cathode from the anode and a concentration of the 10 electron transporting material is increased toward the cathode from the anode.
 - 32. A luminescent device according to claim 30, wherein a luminescent material is doped in the mixed region.
- 33. A luminescent device according to claim 30, wherein a luminescent material is doped in a portion in the mixed region.
- 34. A luminescent device according to claim 30, wherein a blocking material is doped in the mixed region and an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the blocking material is larger than energy differences in the hole transporting material and in the electron transporting material.
- 35. A luminescent device according to claim 34, wherein the blocking material 25 is doped in a portion of the mixed region.
 - 36. A luminescent device according to claim 34, wherein a luminescent material and the blocking material are doped in the mixed region.
- 37. A luminescent device according to claim 36, wherein a portion added the luminescent material is disposed nearer to the anode than a portion added the blocking material.
 - 38. A luminescent device according to one of claim 32 to 34 or one of claim 36

to 37, wherein the luminescent material presents luminance caused from a triplet excited state.

- 39. A luminescent device according to claim 36, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.
 - 40. A luminescent device according to claim 36, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.

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41. A luminescent device according to claim 25, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.

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42. A luminescent device:

comprising an organic luminescent element comprising:

an anode;

a cathode:

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a hole injecting region adjacent to the anode; and

an organic compound layer provided between the hole injecting region and the cathode, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein the hole transporting region being disposed nearer to the anode than the 25 electron transporting region, and

wherein a mixed region comprising the hole transporting material and the electron transporting material is provided between the hole transporting region and the electron transporting region.

43. A luminescent device according to claims 42, wherein there is a concentration gradient in the mixed region that a concentration of the hole transporting material is decreased toward the cathode from the anode and a concentration of the electron transporting material is increased toward the cathode from the anode.

- 44. A luminescent device according to claim 42, wherein a luminescent material is doped in the mixed region.
- 45. A luminescent device according to claim 42, wherein a luminescent material 5 is doped in a portion in the mixed region.
- 46. A luminescent device according to claim 42, wherein a blocking material is doped in the mixed region and an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the blocking material is larger than energy differences in the hole transporting material and in the electron transporting material.
 - 47. A luminescent device according to claim 46, wherein the blocking material is doped in a portion of the mixed region.

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- 48. A luminescent device according to claim 46, wherein a luminescent material and the blocking material are doped in the mixed region.
- 49. A luminescent device according to claim 48, wherein a portion added the 20 luminescent material is disposed nearer to the anode than a portion added the blocking material.
- 50. A luminescent device according to one of claim 44 to 45 or one of claim 48 to 49, wherein the luminescent material presents luminance caused from a triplet excited 25 state.
 - 51. A luminescent device according to claim 48, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.

- 52. A luminescent device according to claim 48, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.
 - 53. A luminescent device according to claim 42, wherein the luminescent device

is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.

5 54. A luminescent device comprising:

an organic luminescent element comprising:

an anode;

a cathode;

an electron injecting region contacted with the cathode; and

an organic compound layer provided between the anode and the electron injecting region, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein the hole transporting region being disposed nearer to the anode than the electron transporting region, and

wherein a mixed region comprising the hole transporting material and the electron transporting material is provided between the hole transporting region and the electron transporting region.

- 55. A luminescent device according to claims 54, wherein there is a concentration gradient in the mixed region that a concentration of the hole transporting material is decreased toward the cathode from the anode and a concentration of the electron transporting material is increased toward the cathode from the anode.
- 25 56. A luminescent device according to claim 54, wherein a luminescent material is doped in the mixed region.
 - 57. A luminescent device according to claim 54, wherein a luminescent material is doped in a portion in the mixed region.

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58. A luminescent device according to claim 54, wherein a blocking material is doped in the mixed region and an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the blocking material is larger than energy differences in the hole transporting material and in the electron

transporting material.

59. A luminescent device according to claim 58, wherein the blocking material is doped in a portion of the mixed region.

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- 60. A luminescent device according to claim 58, wherein a luminescent material and the blocking material are doped in the mixed region.
- 61. A luminescent device according to claim 60, wherein a portion added the luminescent material is disposed nearer to the anode than a portion added the blocking material.
- 62. A luminescent device according to one of claim 56 to 57 or one of claim 60 to 61, wherein the luminescent material presents luminance caused from a triplet excited
 15 state.
 - 63. A luminescent device according to claim 60, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.

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- 64. A luminescent device according to claim 60, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.
- 65. A luminescent device according to claim 54, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
 - 66. A luminescent device comprising:
- an organic luminescent element comprising:

an anode;

a cathode;

a hole injecting region adjacent to the anode;

an electron injecting region adjacent to the cathode; and

an organic compound layer provided between the hole injecting region and the electron injecting region, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein the hole transporting region is disposed nearer to the anode than the electron transporting region, and

wherein a mixed region comprising the hole transporting material and the electron transporting material is provided between the hole transporting region and the electron transporting region.

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67. A luminescent device according to claims 66, wherein there is a concentration gradient in the mixed region that a concentration of the hole transporting material is decreased toward the cathode from the anode and a concentration of the electron transporting material is increased toward the cathode from the anode.

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- 68. A luminescent device according to claim 66, wherein a luminescent material is doped in the mixed region.
- 69. A luminescent device according to claim 66, wherein a luminescent material 20 is doped in a portion in the mixed region.
- 70. A luminescent device according to claim 66, wherein a blocking material is doped in the mixed region and an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit in the blocking material is larger than energy differences in the hole transporting material and in the electron transporting material.
 - 71. A luminescent device according to claim 70, wherein the blocking material is doped in a portion of the mixed region.

- 72. A luminescent device according to claim 70, wherein a luminescent material and the blocking material are doped in the mixed region.
 - 73. A luminescent device according to claim 72, wherein a portion added the

luminescent material is disposed nearer to the anode than a portion added the blocking material.

- 74. A luminescent device according to one of claim 69 to 70 or one of claim 72
 to 73, wherein the luminescent material presents luminance caused from a triplet excited state.
- 75. A luminescent device according to claim 72, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.
 - 76. A luminescent device according to claim 72, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.
- 77. A luminescent device according to claim 66, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
- 20 78. A luminescent device comprising: an organic luminescent element comprising:

an anode:

a cathode; and

an organic compound layer provided between the anode and the cathode, 25 comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein a mixed region is provided between the hole transporting region and the electron transporting region, comprising the hole transporting material and the electron transporting material,

- wherein a luminescent region added a luminescent material is provided in the mixed region.
 - 79. A luminescent device according to claim 78, wherein the mixed region comprises the hole transporting material and the electron transporting material at a

constant ratio.

80. A luminescent device according to claim 78, wherein the luminescent region is a part of the mixed region.

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- 81. A luminescent device according to claim 78, wherein a blocking material is doped in a portion of the mixed region, in which an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit is large as compared with energy differences in the hole transporting material and the electron transporting material.
 - 82. A luminescent device according to claim 81, wherein the luminescent region is disposed nearer to the anode than the portion added the blocking material.
- 83. A luminescent device according to claim 78, wherein the luminescent material presents luminance caused from a triplet excited state.
- 84. A luminescent device according to claim 78, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.
 - 85. A luminescent device according to claim 78, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.
- 86. A luminescent device according to claim 78, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
- 30 87. A luminescent device comprising: an organic luminescent element comprising:

an anode;

- a cathode;
- a hole injecting region adjacent to the anode; and

an organic compound layer provided between the hole injecting region and the cathode, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein a mixed region is provided between the hole transporting region and the electron transporting region, comprising the hole transporting material and the electron transporting material, and

wherein a luminescent region added a luminescent material is provided in the mixed region.

- 88. A luminescent device according to claim 87, wherein the mixed region comprises the hole transporting material and the electron transporting material at a constant ratio.
- 89. A luminescent device according to claim 87, wherein the luminescent region 15 is a part of the mixed region.
- 90. A luminescent device according to claim 87, wherein a blocking material is doped in a portion of the mixed region, in which an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit is large as compared with energy differences in the hole transporting material and the electron transporting material.
 - 91. A luminescent device according to claim 90, wherein the luminescent region is disposed nearer to the anode than the portion added the blocking material.

- 92. A luminescent device according to claim 87, wherein the luminescent material presents luminance caused from a triplet excited state.
- 93. A luminescent device according to claim 87, wherein the ratio of a mass of 30 the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.
 - 94. A luminescent device according to claim 87, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.

95. A luminescent device according to claim 87, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.

96. A luminescent device comprising: an organic luminescent element comprising:

an anode;

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a cathode;

an electron injecting region adjacent to the cathode; and

an organic compound layer provided between the electron injecting region and the cathode, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;

wherein a mixed region is provided between the hole transporting region and the electron transporting region, comprising the hole transporting material and the electron transporting material, and

wherein a luminescent region added a luminescent material is provided in the 20 mixed region.

97. A luminescent device according to claim 96, wherein the mixed region comprises the hole transporting material and the electron transporting material at a constant ratio.

- 98. A luminescent device according to claim 96, wherein the luminescent region is a part of the mixed region.
- 99. A luminescent device according to claim 96, wherein a blocking material is doped in a portion of the mixed region, in which an energy difference between a highest occupied molecular orbit and a lowest unoccupied molecular orbit is large as compared with energy differences in the hole transporting material and the electron transporting material.

- 100. A luminescent device according to claim 99, wherein the luminescent region is disposed nearer to the anode than the portion added the blocking material.
- 101. A luminescent device according to claim 96, wherein the luminescent 5 material presents luminance caused from a triplet excited state.
 - 102. A luminescent device according to claim 96, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.

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- 103. A luminescent device according to claim 96, wherein the mixed region has a thickness of 10 nm or more and 100 nm or less.
- 104. A luminescent device according to claim 96, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.
 - 105. A luminescent device comprising:
- 20 an organic luminescent element comprising:
 - an anode;
 - a cathode;
 - a hole injecting region adjacent to the anode;
 - an electron injecting region adjacent to the cathode; and
- an organic compound layer provided between the electron injecting region and the hole injecting region, comprising a hole transporting region comprising a hole transporting material and an electron transporting region comprising an electron transporting material;
- wherein a mixed region is provided between the hole transporting region and the 30 electron transporting region, comprising the hole transporting material and the electron transporting material, and

wherein a luminescent region added a luminescent material is provided in the mixed region.

- 106. A luminescent device according to claim 105, wherein the mixed region comprises the hole transporting material and the electron transporting material at a constant ratio.
- 5 107. A luminescent device according to claim 105, wherein the luminescent region is a part of the mixed region.
- 108. A luminescent device according to claim 105, wherein a blocking material is doped in a portion of the mixed region, in which an energy difference between a 10 highest occupied molecular orbit and a lowest unoccupied molecular orbit is large as compared with energy differences in the hole transporting material and the electron transporting material.
- 109. A luminescent device according to claim 108, wherein the luminescent region is disposed nearer to the anode than the portion added the blocking material.
 - 110. A luminescent device according to claim 105, wherein the luminescent material presents luminance caused from a triplet excited state.
- 20 111. A luminescent device according to claim 105, wherein the ratio of a mass of the hole transporting material to the total mass of the hole transporting material and the electron transporting material in the mixed region is 10 % or more and 90 % or less.
- 112. A luminescent device according to claim 105, wherein the mixed region has 25 a thickness of 10 nm or more and 100 nm or less.
- 113. A luminescent device according to claim 105, wherein the luminescent device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, 30 a personal computer, a cellular phone, and an audio.
 - 114. A luminescent device comprising:an organic luminescent element comprising:an anode;

a cathode;

a first mixed region adjacent to the anode, comprising a hole injecting material and a hole transporting material;

a second mixed region adjacent to the cathode, comprising an electron injecting material and an electron transporting material; and

a third mixed region provided between the first mixed region and the second mixed region, comprising the hole transporting material and the electron transporting material.

10 115. A luminescent device according to claim 114, wherein there is a concentration gradient in the first mixed region that a concentration of the hole transporting material is decreased toward the third region from the anode and a concentration of the hole injecting material is increased toward the third region from the anode.

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- 116. A luminescent device according to claim 114, wherein there is a concentration gradient in the second region that a concentration of the electron transporting material is increased toward the third region from the cathode and a concentration of the electron injecting material is decreased toward the third region from 20 the cathode.
- 117. A luminescent device according to claim 114, wherein there is a concentration gradient in the third region that a concentration of the electron transporting material is decreased toward the first region from the second region and a concentration of the hole transporting material is increased toward the first region from the second region.
 - 118. A luminescent device according to claim 114, wherein a luminescent material is doped in a portion of the third region.

- 119. A luminescent device according to claim 118, wherein the luminescent material is a triplet luminescent diode.
 - 120. A luminescent device according to claim 118, wherein the luminescent

device is an electric appliance selected from the group consisting of a display device, a video camera, a digital camera, an image reproducing device, a mobile portable computer, a personal computer, a cellular phone, and an audio.

5 121. A luminescent device comprising:

an organic luminescent element comprising:

an anode;

a cathode;

- a first mixed region contiguous to the anode, comprising a hole 10 injecting material and a hole transporting material;
 - a second mixed region contiguous to the first region, comprising the hole transporting material and a host material;
 - a third mixed region contiguous to the second mixed region, comprising the host material and a blocking material; and
- a fourth mixed region provided between the third mixed region and the cathode, comprising the blocking material and an electron injecting material.
- 122. A luminescent device according to claim 121, wherein there is a concentration gradient in the first region that a concentration of the hole injecting 20 material is decreased toward the second region from the anode and a concentration of the hole transporting material is increased toward the second region from the anode.
- 123. A luminescent device according to claim 121, wherein there is a concentration gradient in the second region that a concentration of the hole transporting material is decreased toward the third region from the first region and a concentration of the host material is increased toward the third region from the first region.
- 124. A luminescent device according to claim 121, wherein there is a concentration gradient in the third region that a concentration of the host material is 30 decreased toward the fourth region from the second region and a concentration of the blocking material is increased toward the fourth region from the second region.
 - 125. A luminescent device according to claim 121, wherein there is a concentration gradient in the fourth region that a concentration of the blocking material is

decreased toward the cathode from the third region and a concentration of the electron injecting material is increased toward the cathode from the third region.

- 126. A luminescent device according to claim 121, wherein a luminescent 5 material is doped in a portion of both second region and third region.
 - 127. A luminescent device according to claim 126, wherein the luminescent material is a triplet luminescent diode.
- 10 128. A luminescent device according to claim 121, wherein the blocking material is an electron transporting material.